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	·		U.S	S. PATENT	DOCUMENTS				
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M	1	US 6,309,521 B1	10/30/2001	Andrews,	et al.	204	252	05/11/2000	
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*EXAMINER		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DAT	
PH	2	U\$ 2001/6041281 A1	11/15/2001	Wilkinson	ı, et al.	429	34	12/28/2000	
0/1	3	US 2002/0086195 A1	07/04/2002	Gorman, et al.		426	26	02/08/2002	
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'EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE	•
196	1	3,379,634	04/23/1968	Rutkow	ski, M.D.	204	258	05/24/19	65
- !'	2	3,992,271	11/16/1976	Danzig	et al.	204	129	03/03/19	75 ·
	3	4,039,409	08/02/1977	LaCont	i et al.	204	129	12/04/19	75
<u> </u>	4	4,040,936	08/09/1977	Orth et	al.	204	271	08/02/19	76
],	5	4,048,383	09/13/1977	Clifford	l	429	19	02/09/19	76
	6	4,136,004	01/23/1979	Kamari	an et al.	204	256	07/09/19	76
	7	4,146,438	03/27/1979	de Nor	a et al.	204	1.5	03/07/19	77
	8	4,191,618	03/04/1980	Coker e	t al.	204	98	07/06/19	78
	9	4,209,368	06/24/1980	Coker e	t al	204	98	08/07/19	78
. \ /	10	4,209,591	06/24/1980	Hendril	ks	435	288	08/03/19	78
d	11	4,210,501	07/01/1980	Dempse	y et al.	204	129	07/06/19	78
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·-		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION
ax	11	04 406 831 A1	09.01.91	Europe				·	1
	12	0 47 2 922 A2	04:03:92	Europe					\
04	13	EP 0 791 974 A1	27.08.1997	Europe					\
M	14	WO 99/39840	12.08.1999	Interna	tional				\
No	15	WO 99/39841	12.08.1999	Interna	tional				1
		OTHER DOCUME	NTS (Includin	g Author	, Title, Date, Pertinent P	Pages, Etc.	.)		
96	1	SPE Hydrogen/Oxygen I Connecticut (5 pages)	Fuel Cells for Rig	gorous Na	val Applications, J.F. McEl	roy et al., U	nited Technolog	gies, Winds	or Locks,
Qe:		American Society of Med Generation Systems", W	hanical Enginee .A. Tirrerington	rs, "Desig and A.C.	n and Test Status for Life S Erickson, 8 pages	Support App	olications of SPI	E Oxygen	
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1	182				FILING 08/08/2003	7	GROUP	1545	
			U.S	. PATENT	DOCUMENTS			1745	-
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INITIAL	18	4,212,714	07/15/1980	Coker e	t al	204	00	IF APPROPE	
<u>07'</u>	1		 		· · · · · · · · · · · · · · · · · · ·	204	98	05/14/19	79
	19	4,214,958	07/29/1980	Coker e	et al.	204	98	05/14/19	79
	20	4,224,121	09/23/1980	Dempse	y et al.	204	98	07/06/19	78
<u> </u>	21	4,272,352	06/09/1981	Jizaima	ru et al.	204	279	06/06/19	79
	22	4,276.146	06/30/1981	Coker e	t al.	204	266	12/07/19	79
	23	4,294,671	10/13/1981	Balko		204	128	05/14/19	80
	24	4,311,568	01/19/1982	Balko		204	128	04/02/19	80
	25	4,311,569	01/19/1982	Dempse	y et al.	204	129	04/21/19	80
	26	4,331,523	05/25/1982	Kawasa	ıki	204	129	03/26/19	81
1	27	4,333,805	06/08/805	Davidso	on et al.	204	98	04/27/19	81
V	28	4,360,416	11/23/1982	Davidso	on et al.	204	266	04/27/19	81
			FORE	IGN PATE	NT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	ATION NO
96	29	WO 01/37359 A2	25.05.2001	Interna	tional	H01M	4/00		7
-	30	1,145,250	12.07.1967	German	ıy	H 01 m	27/00		1
•	31	DE197-57-320 A 1	1.7.99	-Interna	tional	H01M	4/92		1
	,	OTHER DOCUME	NTS (Includin	g Author	, Title, Date, Pertinent F	Pages, Etc.,)	ıl	
1/0/		"An Electrochemically I Journal of Power Sourc	Regenerative Hydes, 2 (1977/78) 19	rogen-Ch 1-200 (Ap	lorine Energy Storage Systeril 27, 1977)	em for Elect	ric Utilities", E	. Gileadi et	al.,
190	-	32	•	•	-				
Wh		ASME Publication, "Ai of Papers, 166th Nation:	rcraft On-Board al Meeting, Amer	Electroche ican Chen	emical Breathing Oxygen G nical Society Division of Fu	enerators", el Chemstry,	J.W. Harrison, August 27-31,	8 pages, A 1973	bstracts
/									
EXAMINE	7	es eny	3	-	DATE CONSIDERED	8/18	105		
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1001	<u> </u>	4,373,391	02/15/1983	Johnson	n .	73	335	04/24/19	
lo	35	4,389,297	06/21/1983	Korach	· · · · · · · · · · · · · · · · · · ·	204	252	05/13/19	81
1	36	4,394,244	07/19/1983	Divisek	et al.	204	295	07/07/19	80
·	37	4,406,752	09/27/1983	Weinin	ger et al.	204	3	11/29/19	82
	38	4,414,092	11/08/1983	Lu et al	l.	204	294	04/15/19	82
	39	4,444,639	04/24/1984	Schurig	g et al.	204	257	07/27/19	82
	40	4,457,824	07/03/1984	Dempse	ey et al.	204	290 F	06/28/19	82
	41	4,588,661	05/13/1986	Kaufma	an et al.	429	36	08/27/19	84
	42	4,652,502	03/24/1987	Breault	et al.	429	13	12/30/19	85
	43	4,707,229	11/17/1987	Demps	ey et al.	204	129	12/22/19	83
9	44	4,715,938	12/29/1987	Billings	3	204	129	11/04/19	86
			FORE	IGN PATE	ENT DOCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANS YES	LATION NO
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	1	OTHER DOCUME	NTS (Includin	g Author	r, Title, Date, Pertinent I	Pages, Etc.)		L
16	-	45			ering Conference, "Status o lications" J.F. McElroy et a				
16		Frontiers of Power Tech Chemical/Industrial Plan	nology Conferents', Leonard J.	ice, Octob Nuttall (2	er 9-10, 1974, "Prospects fo 13 pages)	or Electrolyt	ic Hydrogen fo	r	
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STATE TR	ADER		U.S	. PATENT	DOCUMENTS				
'EXAMINER		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE	
24	47	4,950,371	08/21/1990	McElro	у	204	129	03/24/19	
	48	5,296,109	03/22/1994	Carlson	ı et al.	204	129	06/02/19	92
	49	5,346,778	09/13/1994	Ewan e	t al.	429	19	08/13/19	92
1	50	5,372,689	12/13/1994	Carlson	ı et al.	204	252	03/18/19	94
,	51	5,470,448	11/28/1995	Molter	et al.	204	252	01/28/19	94
N	52	5,690,797	11/25/1997	Harada	et al.	204	229	01/18/19	96
V	53	5,837,110	11/17/1998	Dean		204	240	12/17/19	96
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M					Electrolyte Fuel Cell Syster P pages) 1977				
ly		Proceedings of the 28th Cell for Mobile Power F	Power Sources S 'lants'', J.F. McE	ymposiun Ilroy (5 pa	n, 12-15 June 1978, "An As ages)	ssessment of	the Solid Polym	er Electrol	yte Fuel
EXAMINE	R ~	C-LOR	·		DATE CONSIDERED	3/18/	05		
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1 8 2003	(Use several sheets if necessary)	John Zagaja, et al.	
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WAND WOOD	OTHER DOCUMENTS (Including Author, Tit	le, Date, Pertinent Pages, Etc.)	
€ 56	7th Intersociety Energy Conversion Engineering Eng	onference, 1972, "The Solid Polymer I	Electrolyte Fuel Cell for the Space
00/ 57	Abstracts of Papers, First Chemical Congress of th December 5, 1975, No. 21, "Some Physico-Chemica Separation and Electrochemical Devices", (3 pages)	l Properties of Select Hydrated Sulfor	City, Mesxico, November 30 - lic Acid Membranes used in
JU 58	Operations and Maintenance Manual for the SIFR 9 Apr 1993		
59	8th Intersociety Energy Conversion Engineering C August 13-17, 1973, "Electrolytic Hydrogen Fuel I et al., (7 pages)	onference Proceedings, University of I Production with Solid Polymer Electro	'ennsylvania, Philadelphia, PA, llyte Technology", W.A. Titterington
M: 60	Journal of the Electrochemical Society, Vol. 118 No Hydrocarbons in Inert or Oxygen Atmospheres", A	.B. LaConti et al., (2 pages)	, · · · · · · · · · · · · · · · · · · ·
61	Hydrogen Energry System, Proceedings of the 2nd August 1978, "Solid Polymer Eletrolyte Water Elec	World Hyrdogen Energy Conference, trolysis Development Status", L.J. Ni	held in Zurich, Switzerland, 21-24 attall et al., (9 pages)
M 62	General Electric Company, Report No. 71-C-303, C L.W. Niedrach et al.	October, 1971, "The Current Status of	Ion Exchange Memrane Fuel Cells",
U6 63	"A Low Pressure Electrolyzer for the Next Genera Environmental Systems, Seattle, Washington, July	tion Submarine", Andrei Leonida et a 13-16, 1992 (7 pages)	I., 22nd International Conference on
less @	Proceedings of the 33rd International Power Source In-Situ Product Water Removal", Andrei Leonida,	es Symposium, 13-16 June 1988, "Hye United Technologies Corp., (8 pages)	trogen/Oxygen Fuel Cells with
65	Proceedings of Eighth Synthetic Pipeline Gas Symp "Application of Solid Polymer Electrolyte Water E	lectrolysis for Bulk Hydrogen Genera	tion, L.J. Nuttall, (13 pages)
M) 66	Conference Proceedings Volume II, 1st World Hyd "Conceptual Design of Large Scale Water Electroly pages)		·
UG 67	Journal of the Electrochemical Society, Vol 125, No Electrolysis Technology", A.J. Appleby et al, (5 pages)	. 3, March, 1978, Abstract No. 485, " ges)	New Developments in Alkaline
EXAMINER J	5280	DATE CONSIDERED 8/8/	06
*EXAMINER: Initial in not considered. Include	if citation considered, whether or not citation is in conforma le copy of this form with next communication to applicant.	nce with MPEP Section 609; Draw line th	rough citation if not in conformance and

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INITIAL TRADENARY	OTHER DOCUMENTS (Including Author, Title	le, Date, Pertinent Pages, Etc.)	
W. 68	Industrial and Government Applications of SPE Fu on "Membranes and Ionic and Electronic Conducti	el Cell and Electrolyzers, T.G. Coket ng Polymer" May 17-19, 1982, Cleve	et al., The Case Western Symposium land, Ohio, (23 pages)
26 %	"Solid Polymer Electrolyte Water Electrolysis Tech Report, October 1977 - November 1981, General El	nnology Development for Large-Scale lectric Company, Wilmington, Massa	Hydrogen Production". Final chusetts
: Def 70	Prepared for the Presentation at the National Meet Recent Advances int he Chemical Engineering Aspo "Prehumidification of Reactants for flight Weight I	ing of the American Institute of Chem ects of Euergy Conversion", June 3-6, Hydrogen-Oxygen Fuel Cells", A.P. F	nical Engineers, Symposium on "Some , 1973, Detroit, Michigan, ickett et al., (28 pages)
\\ \(\) \(Pittsburgh Conference on Analytical Chemistry and March 4-8, 1974, "A Solid Polymer Electrolyte Hyd	d Applied Spectroscopy, Cleveland Co drogen Gas Generator for Gas Chron	onvention Center, Cleveland, Ohio, natography", R.C. Jones, (3 pages)
D6- n	NASA Center for Aerospace Information (CASI), C Solid Polymer Electrolyte Technology to Electrolyt	Global Connection to Aerospace Reseation Hyrdrogen and Oxygem Production	arch, "Status and Applicability of n, W.A. Titterington, (3 pages)
Je6 73	SPE Water Electrolysis Subsystem, Configuration Electro-Chem Products, July, 1991	and Operations Manaual, Prepared b	y Hamilton Standard Division,
J4 74	International Search Report; International Applica Date of Mailing 29/04/2002	ition No. PCT/US 00/4223; Internatio	nal Filing Date 17/11/200 (7 pgs);
	·		
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				U.S. PAT	PENT DOCUMENTS	CIASS	SUBCLASS	FILING DA	-
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4	î	3,802,878	04/09/1974	Linstro			45	03/13/1979	
	2	4,206,271	06/03/1980	Ļ	g, et al.	429		09/08/1978	
	3	4,225,346	09/30/1980	Hellik	er, et al.	75	211		
	4	4,447,302	05/08/1984	Brene	cke, et al.	204	128	03/01/198	
1	5	5,110,541	05/05/1992	Yama	masu, et al.	419	2	05/22/199	
+	6	5,640,669	06/17/1997	Harad	ia, et al.	428	552	12/04/199	
T	1,	5,937,264	08/10/1999	Wallin	n	419	2 .	08/29/199)7
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